# Manage Events Straw-Person

(politically correct)

As a result of a meeting on October 15, 1996 among CCS developers a straw-person design for Manage Events was developed to replace the straw-person design from three months ago. This memo provides the results from this meeting. A special thanks to those members of DMG who requested this meeting with the SYM group with the goal to move forward with development of Manage Events. Attendees: Kashid Khoui, Mike Beierschmitt, Dave Warren, Rick McMullan, Dave Fish, Ray Deyton and Kharl Bocala, and Douglass George.

## Formatted Event Messages

Table 1. displays the information encapsulated within a formatted event message. The ASCII text message will contain all the information in Table 1.

**Table 1**

| Event Message Data | Type |
|---|---|
| CCS Time | Double (UTC format) |
| ID Number | Integer |
| Source - Node | String |
| Source - Subsystem | Enumerated |
| Source - Process Name | String |
| Source - PID | Integer |
| Severity | Enumerated |
| Type | Enumerated |
| Message | ASCII Text String |

## Generating Event Messages

Every application within CCS will have the capability to generate an event message by passing the ID Number and Foreground Data to the EventGenerator Object. This data is then merged with information from the event data base. Table 2. displays the parameters that are passed to the EventGenerator and the static information contained in the data base. The Node, Process Name, Process PID, Subsystem, Severity, and Type are all known by individual EventGenerator objects that are dedicated to a CCS application.

**Table 2**

| System Call Parameters | ← Primary Key → | Data Base Information |
|---|---|---|
| ID Number | | ID Number |
| Foreground Data | | Background |
| Operational Mode | | Type |
| | | Severity |

## Definitions

**Foreground Data**- List of data to be inserted along with the background data.

**Background Data**- Static ASCII text that will be supplemented by foreground data.

> **NOTE :** Together foreground and background data are merged to create an ASCII text message.

## ID Number Reservations

The ID numbers will range from 0 - 65,535. Table 3. displays the series of ID Numbers that are reserved for each subsystem.

**Table 3**

| Subsystem | ID Number Range |
|---|---|
| FEP | 10,000 - 14,999 |
| CMD | 20,000 - 24,999 |
| SYM | 30,000 - 34,999 |
| DMG | 40,000 - 44,999 |
| CCM | 50,000 - 54,999 |
| GUI | 60,000 - 64,999 |

The first ID Number for each subsystem will be reserved for a freeform debug message and the second ID number for each subsystem will be reserved for a freeform general message.

Example: Event message ID Number 10,000 is reserved for a FEP freeform debug event message. Event message ID Number 10,001 is reserved for a FEP freeform general event message.

All ID numbers not represented in Table 3. are reserved for future extensions to Manage Events design.

# Formatted Event Messages

Formatted Event Messages will be a 255 ASCII text string partitioned into the fields described in Table 5.

**Table 4 Formatted Event Message Fields**

| Field | CCS TIME | Blank | ID Number | Blank | Source Node | Blank | Source Subsystem | Blank |
|---|---|---|---|---|---|---|---|---|
| Characters | 21 | 1 | 6 | 1 | 6 | 1 | 3 | 1 |

| Field | Source Process Name | Blank | Source PID | Blank | Operational Mode | Blank | Message Description (Background & Foreground) | |
|---|---|---|---|---|---|---|---|---|
| Characters | 10 | 1 | 6 | 1 | 2 | 1 | 194 | |

## Defining Event Messages

Rick McMullan will create a MS Excel worksheet on the server to allow CCS developers to start defining event messages.

## Questions?

If there are any questions, concerns, or issues to be raised please contact Douglass George @ 918-7488.